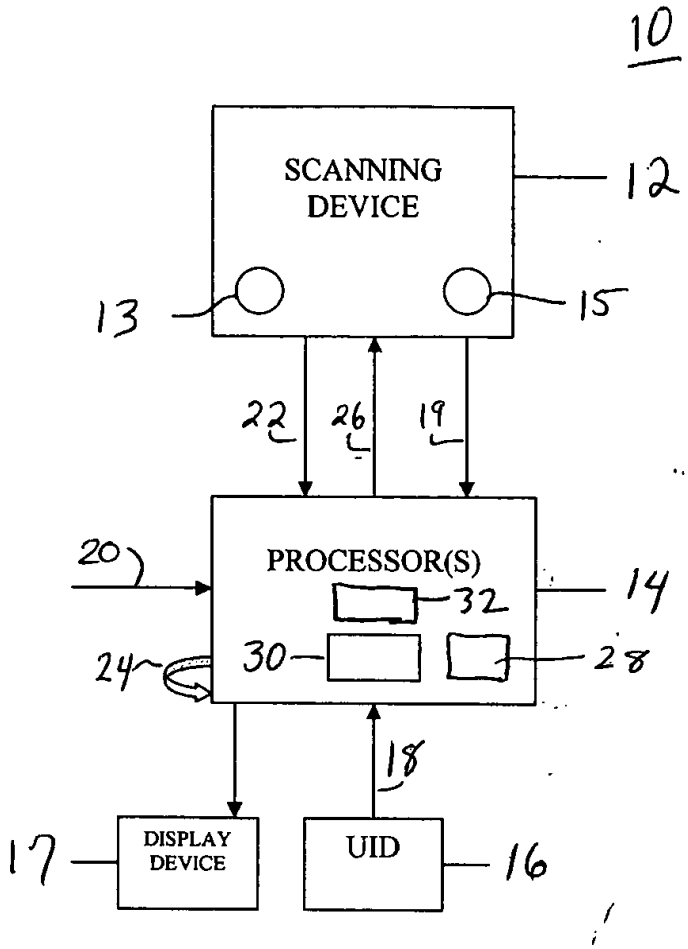
10
SCANNING DEVICE
12
13
15
22
26
19
20
PROCESSOR(S)
14
32
24
30
28
18
17
DISPLAY DEVICE
UID
16

FIG. 1

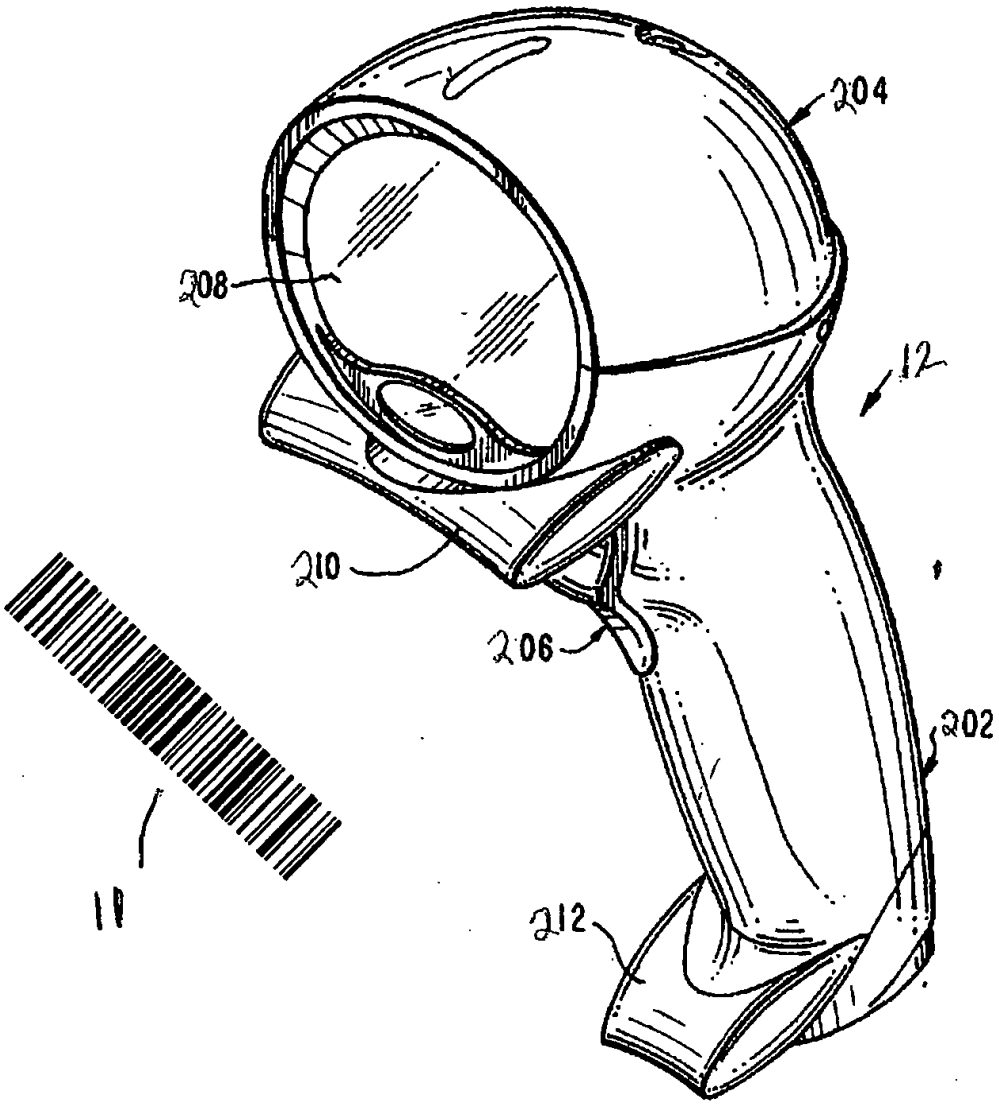


FIG. 2A

FIG. 2B

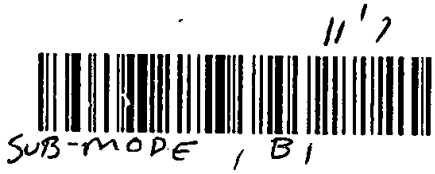


FIG. 2C

FIG. 2D

FIG. 2E

FIG. 2F

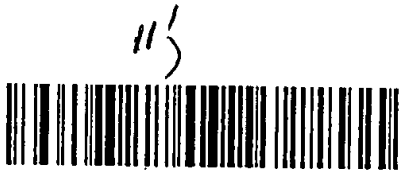


FIG. 2G 20° angle orientation

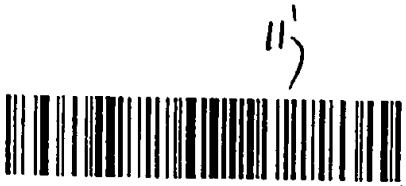


FIG. 2H ± 3° threshold orientation

FIG. 2I scan lines 1-5 orientation

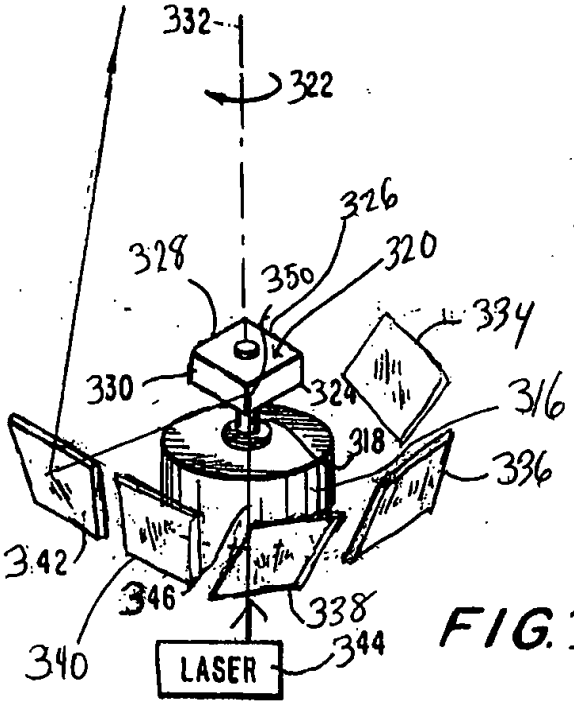
332
322
326
328
350
320
334
330
324
316
318
336
342
346
338
340
LASER
344

FIG. 3

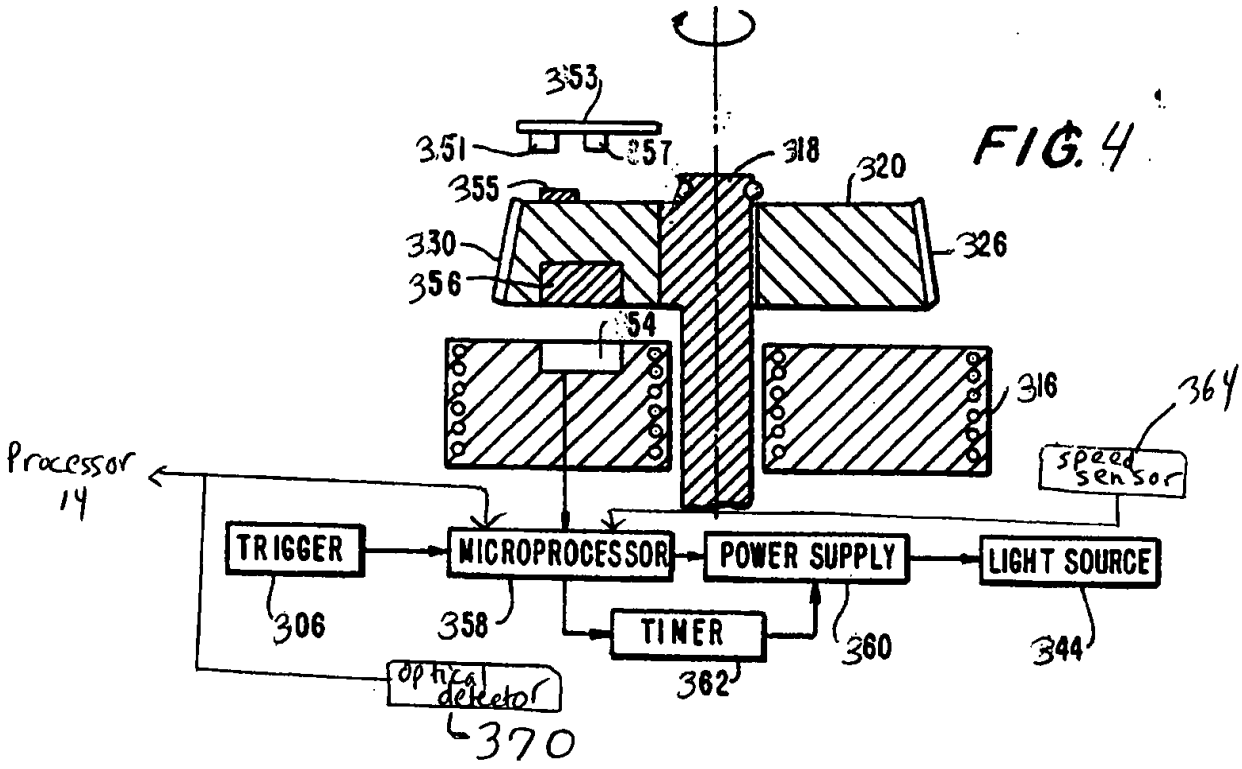
353
351
357
318
320
355
330
326
356
354
316
364
Processor 14
speed sensor
TRIGGER
MICROPROCESSOR
POWER SUPPLY
LIGHT SOURCE
306
358
TIMER
360
344
362
optical detector
370

FIG. 4

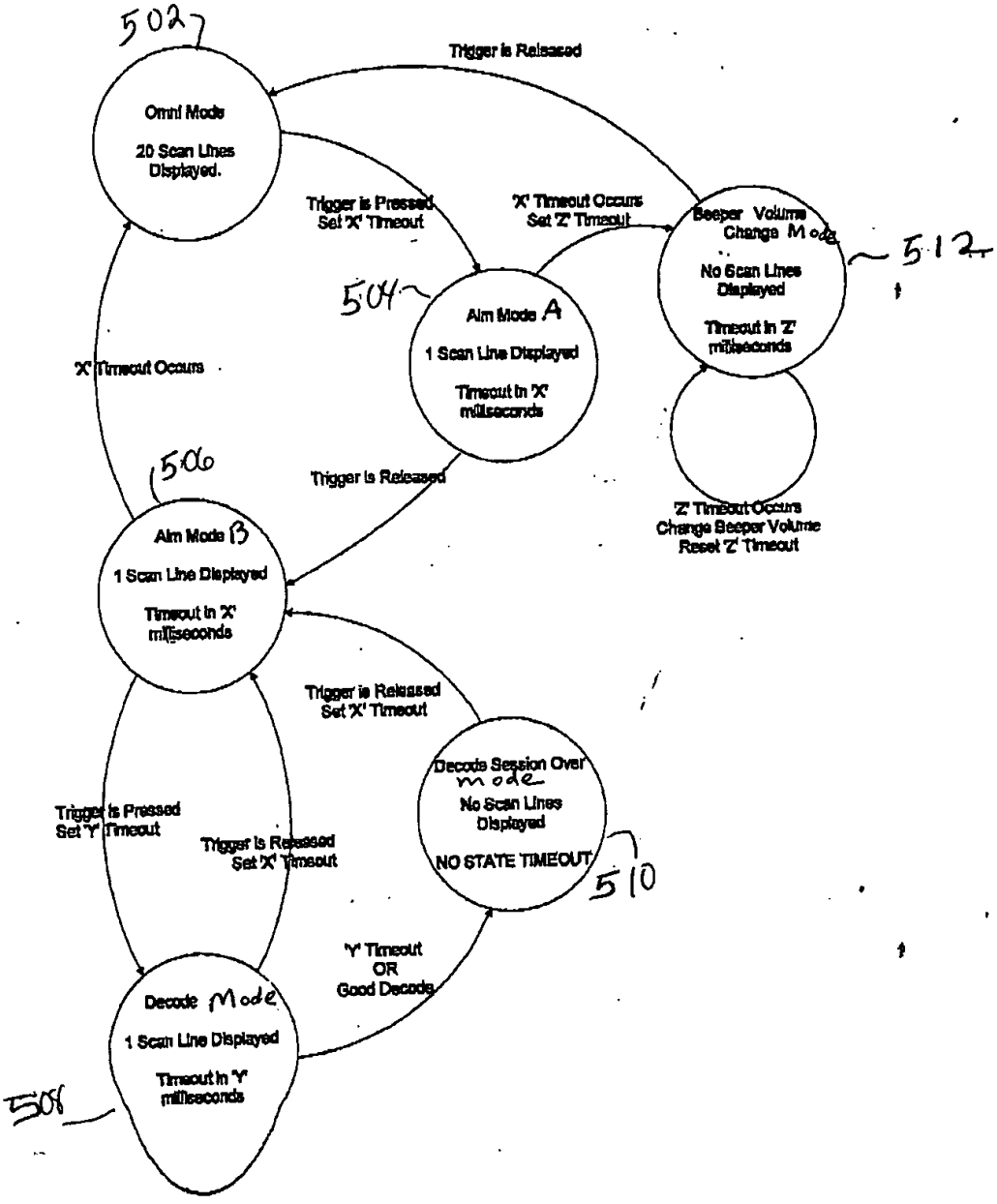
502
Omni Mode
20 Scan Lines Displayed.
Trigger is Released
Trigger is Pressed
Set 'X' Timeout
'X' Timeout Occurs
Set 'Z' Timeout
Beeper Volume Change Mode
512
No Scan Lines Displayed
Timeout in 'Z' milliseconds
504
Aim Mode A
1 Scan Line Displayed
Timeout in 'X' milliseconds
'X' Timeout Occurs
Trigger is Released
'Z' Timeout Occurs
Change Beeper Volume
Reset 'Z' Timeout
506
Aim Mode B
1 Scan Line Displayed
Timeout in 'X' milliseconds
Trigger is Released
Set 'X' Timeout
Decode Session Over mode
No Scan Lines Displayed
NO STATE TIMEOUT
510
Trigger is Pressed
Set 'Y' Timeout
Trigger is Released
Set 'X' Timeout
'Y' Timeout
OR
Good Decode
Decode Mode
1 Scan Line Displayed
Timeout in 'Y' milliseconds
508

FIG. 5

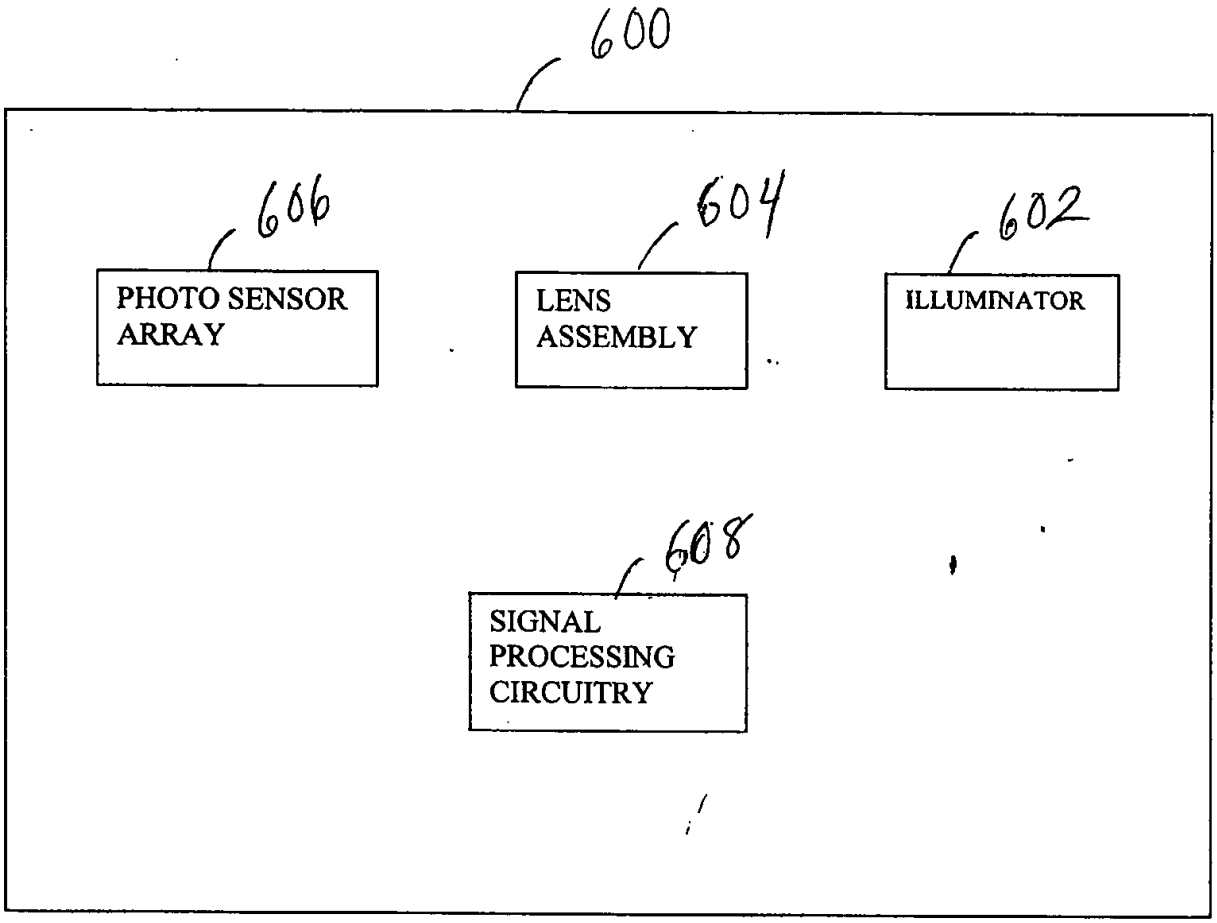
600
606
PHOTO SENSOR ARRAY
604
LENS ASSEMBLY
602
ILLUMINATOR
608
SIGNAL PROCESSING CIRCUITRY

FIG. 6

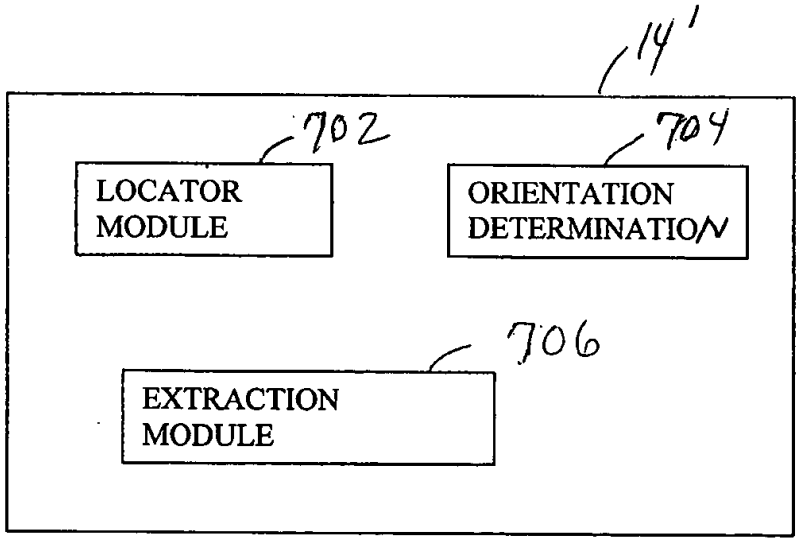
14'
702
LOCATOR MODULE
704
ORIENTATION DETERMINATION
706
EXTRACTION MODULE

FIG. 7